

What is claimed is:

- 1 1. A speaker apparatus for mounting in an automobile, comprising:
2 an L channel speaker unit placed forward of a driver seat and a passenger seat of
3 the automobile having:
4 a horizontal vibration axis is in a direction pivoted counterclockwise
5 from a forward direction of motion of said automobile, and
6 a vertical vibration axis is directed at an incline of a prescribed angle in
7 the direction of motion of said automobile;
8 an R channel speaker unit placed forward of the driver seat and the passenger
9 seat of the automobile having:
10 a horizontal vibration axis in a direction pivoted clockwise from the
11 forward direction of motion of said automobile, and
12 a vertical vibration axis at an incline of a prescribed angle in the direction of motion of
13 said automobile.
- 1 2. The speaker apparatus for mounting in an automobile, as described in claim 1,
2 comprising:
3 a center speaker unit disposed with said L channel speaker and R channel
4 speaker and which outputs a $-L - R$ signal in which a $-L$ signal which is a reverse phase
5 signal of said L channel signal is added to a $-R$ signal which is a reverse phase signal of
6 said R channel signal.
- 1 3. The speaker apparatus for mounting in an automobile, as described in claim 2,
2 wherein:
3 said center speaker unit is placed so that a line extending from a vertical
4 vibration axis thereof intersects with a front glass of said automobile.
- 1 4. The speaker apparatus for mounted in an automobile, as described in claim 2, further
2 comprising:
3 a subwoofer disposed separate from said center speaker unit, said L channel
4 speaker and said R channel speaker which outputs a $L + R$ signal.

1 5. The speaker apparatus according to claim 3 wherein said center channel vertical
2 vibration axis is inclined.

1 6. A speaker apparatus, comprising:

2 an L channel speaker unit which produces an L channel signal;

3 an R channel speaker unit which produces an R channel signal;

4 a center speaker unit, which is placed between said L channel speaker unit and
5 said R channel speaker unit and which produces a -L channel signal and -R channel
6 signal.

1 7. The speaker apparatus as described in claim 6, further comprising:

2 a horizontal vibration axis of said L channel speaker unit is pivoted
3 counterclockwise from a forward direction of motion of said automobile;

4 a vertical vibration axis of said L channel speaker unit is directed at a prescribed
5 angle in the direction of motion of said automobile;

6 a horizontal vibration axis of said R channel speaker unit is pivoted clockwise
7 from the forward direction of motion of said automobile; and

8 a vertical vibration axis of said R channel speaker unit is inclined a prescribed
9 angle in the direction of motion of said automobile;

10 wherein said L channel speaker unit, said R channel speaker unit, and said center
11 speaker unit are placed forward of a driver seat and a passenger seat of an automobile.